



SIZE		DISC PROTRUSION		FLANGE THICKNESS			BOLTING LENGTH (L)		
DN	NPS	X	Y	EN 1092 PN 10	EN 1092 PN 16	ASME B16.5 CL 150	PN 10	PN 16	CL 150
50	2"	-	-	18	18	19.1	65	65	2"
65	2½"	-	-	18	18	22.4	70	70	2¼"
80	3"	-	-	20	20	23.9	70	70	2¼"
100	4"	-	-	20	20	23.9	70	70	2¼"
125	5"	-	-	22	22	23.9	75	75	2½"
150	6"	-	-	22	22	25.4	75	75	2¾"
200	8"	-	-	24	24	28.5	80	80	2¾"
250	10"	-	-	26	26	30.3	90	90	3"
300	12"	131	15	26	28	31.8	90	100	3"
350	14"	170	23	26	30	35.1	90	100	3¼"
400	16"	230	38	26	32	36.6	100	110	3¼"
450	18"	285	53	28	40	39.7	100	110	3½"
500	20"	337	68	28	44	43.0	100	110	4"
600	24"	438	98	28	54	47.8	110	120	-
700	28"	535	128	30	36	-	110	130	4"
800	32"	630	158	32	38	-	120	140	-
900	36"	725	188	34	40	-	120	140	-
1000	40"	819	218	34	42	-	130	150	-
1200	48"	1005	278	38	48	-	150	170	-
1400	56"	1191	338	42	52	-	160	180	-
1500	60"	1281	367	-	-	-	-	-	-

### FLANGE BOLTING LENGTH

The table shows the calculated bolt lengths for ISO PN and ASME flanges, based on the following assumptions:

- flange thickness of a steel welding neck flange according EN 1092 and ASME B16.5;
- use of hexagon head cap screws, two spacers and a nut;
- standard available bolt lengths.

*Important:* Only as guideline, any deviation requires recalculation of the bolt length.